

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/050296

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 D06F75/10 D06F75/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 D06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^a	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 018, no. 381 (C-1226), 18 July 1994 (1994-07-18) -& JP 06 105996 A (TOSHIBA HOME TECHNOL CORP), 19 April 1994 (1994-04-19) abstract	1,13,14
A	the whole document ---	2-4,6,7, 10
X	DE 43 15 800 A (KNORR WILFRIED) 24 November 1994 (1994-11-24) column 1, line 1-44	1,2,14
A	column 3, line 38 -column 5, line 12; figure 3 ---	3-10 --/--

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the International search

Date of mailing of the International search report

24 June 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 59 037999 A (MATSUSHITA ELECTRIC IND CO LTD) 1 March 1984 (1984-03-01) figures 1,4	1,2,14
A		3,4,6,7, 13
X	WO 01/57302 A (KONINKL PHILIPS ELECTRONICS NV) 9 August 2001 (2001-08-09) page 3, line 16-34	1,14
A		3,7,11, 13
	page 5, line 8-11; figure 1	
A	US 6 009 645 A (SHIMIZU MASAO ET AL) 4 January 2000 (2000-01-04) abstract column 2, line 29 -column 3, line 11 column 8, line 4 -column 10, line 15; figures.	1-3,6,7, 13,14
A	US 3 002 302 A (FLOWERS THEODORE R) 3 October 1961 (1961-10-03) column 1, line 1 -column 5, line 33; figures 1-3	1-3,6,7, 14
A	GB 587 802 A (GEORGE HENRY WILKINSON) 6 May 1947 (1947-05-06) the whole document	1,3,4,7, 9
P,A	WO 03/052194 A (GUO TAO ; WONG NYIK S (NL); YONG JIANG (NL); ASOK S O KASEVAN KUMAR (N) 26 June 2003 (2003-06-26) the whole document	1-14

INTERNATIONAL SEARCH REPORT

Information on patent family members

 International Application No
PCT/IB2004/050296

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 06105996	A	19-04-1994	NONE		
DE 4315800	A	24-11-1994	DE	4315800 A1	24-11-1994
			AU	6843994 A	12-12-1994
			WO	9426966 A1	24-11-1994
JP 59037999	A	01-03-1984	JP	1706605 C	27-10-1992
			JP	3075198 B	29-11-1991
WO 0157302	A	09-08-2001	SG	86370 A1	19-02-2002
			CN	1363004 T	07-08-2002
			WO	0157302 A1	09-08-2001
			EP	1169510 A1	09-01-2002
			JP	2003521320 T	15-07-2003
			US	2001042326 A1	22-11-2001
US 6009645	A	04-01-2000	JP	3257451 B2	18-02-2002
			JP	10328498 A	15-12-1998
			JP	3257465 B2	18-02-2002
			JP	11076699 A	23-03-1999
			JP	3430880 B2	28-07-2003
			JP	11090098 A	06-04-1999
			JP	3119212 B2	18-12-2000
			JP	11090097 A	06-04-1999
			CN	1203291 A , B	30-12-1998
US 3002302	A	03-10-1961	US	3041757 A	03-07-1962
			US	3041756 A	03-07-1962
			DE	1082220 B	25-05-1960
			FR	1209989 A	04-03-1960
			GB	890558 A	07-03-1962
			DE	1095779 B	29-12-1960
			GB	881434 A	01-11-1961
			DE	1082221 B	25-05-1960
			GB	892512 A	28-03-1962
GB 587802	A	06-05-1947	NONE		
WO 03052194	A	26-06-2003	SG	98046 A1	20-08-2003
			WO	03052194 A1	26-06-2003